

Technical Specifications for DI water unit :

General :

Quotes are invited for DI water system

Asst Registrar Purchase section

IISER Mohali

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IISER will not be responsible for delays in courier or post. Please send your bids ahead of time. Last receiving date will be specified in the document provided by Stores.

Please provide compliance for technical specs below other than your standard technical quote

Technical Specifications:

1. It should be single stage system- produce Endotoxin and bacteria free ultrapure water directly from potable water supply .
2. Additional booster pump if necessary must be provided by vendor.
3. It should be supplied with 25L built in storage vessel. Docking vessel must be made of HDPE.
4. It should have recirculation facility(atleast 4 times in an hour) to maintain consistent peak water purity.
5. It should have RS232/USB interface for monitoring system to remotely control or log water quality/usage etc.
6. Instrument should show water volume in reservoir graphically and in percentage.
7. It should have cartridge change indicator.
8. The makeup rate of the unit should be (7-10) L/Hr. and flow rate at dispense point should be minimum 1.0L/min or better.
9. **It should have dual wavelength UV (185/254 nm).**
10. **System should have two remote dispense points in addition to the main unit (one about 0.8 m from DI unit and another about 3.1 m from DI unit table . The dispense unit must have 1.2 1.3 m diagonal reach inside a wet bench or fume hood and the gun must deliver 0.5 lpm or more . All fittings must be fluoroware HDPE or Teflon . Please see drawing and allow some extra lengths for customizing at site.**
11. **Resistivity of water must be measurable and indicated in a display from the main unit to show the quality.**
12. **Unit size should be less than 550 mm x 300 mm Length and width(height less than 600 mm)
Please quote for a stand for unit (stand must be cleanroom compatible)**
13. Flow Rate or make up rate : (7-10) Ltrs./Hr. @ 15°C
14. Dispensing Rate : 1.0 L / min or greater
15. Resistivity : 18.2 MΩ- cm @ 25°C
16. TOC : **around (1-3) ppb**
17. Bacteria : <0.1 CFU/ml
18. pH : Effectively Neutral
19. It is vendors responsibility to check if specs will work for feed water quality at site

- 20. A domestic RO water system must be used to fill a 200 ltr sintex tank as feed water . Only tank will be provided an appropriate pump with fittings to deliver the feed water via a 1/2" CPVC pipe must be provided by vendor.**
- 21. Maintenance: Comprehensive maintenance with all spare parts must be quoted for 5 years. Apart from recommended sanitation and filter changes whenever the users find processing quality in the lab is degrading the vendor must change filters , cartridges and other consumables. Instead of giving commercial brand names for consumables please give the technical names for consumables. The consumables must reflect the end usage requirements for semi-conductor processing. Quoting unwanted accessories/consumables will be deemed necessary for your system and will reflect in price comparison.**
- 22. Also vendor must provide atleast 10 references or more for the quote models.**
- 23. Approved OEM brands are Elga, Sartorius and Millipore. Other vendors must have supplied 10 units of same model and show strong customer base of reputed research Institutes India and atleast 100 units world wide with servicing network in India.**
- 24. Vendors complaining about other competing vendors products will be disqualified.**
- 25. We reserve the right to ask for a presentation if necessary.**